

2. (Amended) The method as claimed in claim 1, wherein  $n$  is equal to 256,  $n_1$  is equal to 16, and  $n_2$  is equal to 16.

3. (Amended) The method as claimed in claim 1, further comprising forming the signal sequence  $K(i)$  by modulating the second signal sequence  $K_2(k)$  as follows:

$$K(i) = K_2(i \bmod n_2) * K_1(i \div n_2).$$

4. (Amended) The method as claimed in claim 1, wherein the signal sequence  $K(i)$  is contained in a received signal sequence  $E(1)$  and is determined in the mobile station by establishing a correlation sums  $S$  of the signal sequence  $K(i)$  with corresponding sections of the received signal sequence  $E(1)$ , a partial correlation sum sequence  $TS(z)$  of the signal sequence element  $K_2(k)$  being determined using corresponding parts of the received signal sequence  $E(1)$ , and  $n_1$  elements of the partial correlation sum sequence  $TS(z)$  being selected in order to calculate the correlation sum  $S$  and being multiplied by the signal sequence element  $K_1(j)$ .

5. (Amended) The method as claimed in claim 4, further comprising selecting  $n_1$  in each of  $n_2$ -th elements of the partial correlation sum sequence  $TS(z)$  in order to calculate the correlation sum  $S$ .

6. (Amended) The method as claimed in claim 1, wherein, the signal sequence  $K(i)$  is contained in a received signal sequence  $E(1)$  and is determined in the mobile station by establishing a correlation sums  $S$  of the signal sequence  $K(i)$  with corresponding sections of the received signal sequence  $E(1)$ , and

wherein a partial correlation sum sequence  $TS(z)$  of the signal sequence  $K_1(j)$  is determined using selected elements of the received signal sequence  $E(1)$ , and  $n_2$  elements of the partial correlation sum sequence are multiplied by the signal sequence element  $K_2(k)$  in order to calculate the correlation sum  $S$ .

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Serial No. : 09/786,738  
Filed : March 8, 2001  
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Attorney's Pocket No.: 12758-006001

7. (Amended) The method as claimed in claim 6, further comprising selecting  $n_1$  in each of  $n_2$ -th elements of the received signal sequence  $E(1)$  in order to calculate a partial correlation sum TS.

8. (Amended) The method as claimed in claim 4, further comprising storing partial correlation sums TS and using the partial correlation sums in order to determine a further correlation sum S.- -

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